Section-A
Multiple Choice Questions (MCQ's)

Q-01: Choose the correct answer for each from the given option

(i) The work will be positive, if the angle between force and displacement is ______
(a) 90° (b) 180° (c) 0° (d) 270°

(ii) The objective of a refracting telescope is a ______
(a) Double convex lens (b) Convex mirror
(c) Plane mirror (d) Concave mirror

(iii) If vector sum of all the forces on a body is equal to zero, then it is said to in ______
(a) Translational equilibrium (b) Rotational equilibrium
(c) Static equilibrium (d) Dynamic equilibrium

(iv) In transverse waves the distance between two consecutive crests is called ______
(a) Displacement (b) Wave length (c) Velocity (d) None of them

(v) Pin hole camera was invented by ______
(a) Al-Beruni (b) Al Kindi
(c) Al-Khawarzmi (d) Ibn ul Hatham

(vi) The least count of the micrometer screw gange is ______
(a) 0.001 cm (b) 0.01 cm (c) 0.1 cm (d) 1 cm

(vii) "G" is called ______
(a) Gravitational acceleration (b) Gravitational force
(c) Gravitational constant (d) None of them

(viii) Archimede's principle is applied to determine.
(a) specific ehat (b) specific gravity
(c) Specific resistance (d) None of these

(ix) Electromagnetic waves carries ______
(a) wave length (b) Frequency (c) charge (d) Energy

(x) To measure current in a circuit an ammeter is always connected ___
(a) in series (b) in parallel (c) in any way
(d) Parallel to voltmeter

(xi) If $\vec{F}x$ and $\vec{F}y$ are rectangular components of a force $\vec{F}$, then $\vec{F}$ = ____
(a) $\vec{F}_x^2 + \vec{F}_y^2$ (b) $\vec{F}_x + \vec{F}_y$ (c) $\sqrt{\vec{F}_x + \vec{F}_y}$ (d) $\sqrt{\vec{F}_x^2 + \vec{F}_y^2}$

(xii) A pair of scissors in an example of a ______
(a) Pulley (b) Lever (c) Wheel and Axle
(d) Inclined Plane

(xiii) In the system of international the unit of specific heat is ______
(a) $J.Kg^{-1} K^{-1}$ (b) $J.Kg^{-1}$ (c) J/s (d) None of them

(xiv) If the inner surface of a spherical mirror is reflecting, it is called ____
(a) Plane mirror (b) Concave mirror
(c) Convex mirror (d) None of these

(xv) In a gas discharge tube the electric current is due to flow of ______
(a) Electrons (b) Positive ions (c) Negative (d) Neutrons

(xvi) Which is more penetrating?
(a) α Rays (b) β rays (c) γ rays (d) None of them

(xvii) Which is the best approximation of the weight of an object of mass 800 grams?
(a) 80 N (b) 8 N (c) 0.8 N (d) 800 N